

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-88

WASTE DISCHARGE REQUIREMENTS FOR:

THE CHRISTIAN BROTHERS GREYSTONE WINERY
ST. HELENA, NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. The Christian Brothers Greystone Winery, hereinafter called the Discharger, submitted a letter dated September 21, 1978 from their consultant describing the treatment plant revisions and proposed mode of operation.
2. The Discharger discharges a maximum of 7500 gallons per day of combined domestic and industrial wastes. The sanitary wastes are generated by 50 employees and a maximum of 2000 visitors per day. The industrial waste is from cooling water overflow and equipment washing operations. No crushing occurs at this facility only storage and champagne bottling.
3. Sanitary waste passes through two septic tanks, biodiscs, and a chlorine contact chamber before combining with the industrial waste in aeration pond number 1. Industrial waste passes through a pH neutralization chamber before entering aeration pond number 1. The combined sanitary and industrial waste passes through ~~three~~ oxidation ponds in succession and is disposed of by spray irrigation of 1.5 acres of grass land. During periods of rainfall the waste is stored in the oxidation ponds.
4. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) in April 1975. The Basin Plan contains water quality objectives for the Napa River.
5. The beneficial uses of the Napa River downstream from the spray irrigation and disposal area are:
 - a. Domestic water supply for irrigating family gardens.
 - b. Agricultural water supply for stock watering, irrigation and frost protection.
 - c. Water contact recreation.
 - d. Fish migration and habitat.
 - e. Preservation and enhancement of fish, wildlife and other aquatic resources.
 - f. Esthetic enjoyment.

6. The beneficial uses of the Napa Valley groundwaters as set forth in the Basin Plan include:
 - a. Domestic water supply.
 - b. Agricultural water supply.
7. The existing waste discharge requirements in Order No. 75-64 are no longer applicable.
8. As this project is adoption of waste discharge requirements for an existing discharge, this Board, pursuant to Water Code Section 13389, is not required to comply with the provisions of Chapter 3 of Division 13 of the Public Resources Code (California Environmental Quality Act).
9. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, that the Discharger shall comply with the following:

A. Effluent Limitations

1. Waste at the surface of treatment ponds shall meet the following quality limits at all times:

In any grab sample:

Dissolved Sulfide	0.1 mg/l maximum
Dissolved Oxygen	2.0 mg/l minimum
pH	6.5 minimum
	9.0 maximum

2. At some point in the treatment process the sanitary or combined waste shall meet the following limit at all times:

Total Coliform	23 MPN/100 ml, moving median
Organisms	of seven consecutive samples

3. A minimum freeboard of at least 0.5 foot shall be maintained in the oxidation ponds.
4. Waste as discharged to the spray disposal area shall meet the following quality limits at all times:

In any grab sample;

5-day BOD	40 mg/l maximum
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5. The public shall be effectively excluded from the waste treatment and spray disposal area.
6. The oxidation ponds shall be protected against erosion and washout from a flood having a predicted frequency of once in 100 years.

B. Prohibitions

1. There shall be no bypass or overflow of waste to waters of the State either at the treatment plant or from the collection system.
2. Wastes in the leach pit shall not be discharged directly to the holding ponds.
3. The waste shall not be allowed to escape from the discharger's spray disposal area into waters of the State via surface flow, resurfacing after percolation or airborne spray.
4. The waste shall not cause degradation of any ground water so as to impair beneficial use.

C. Provisions

1. Neither the treatment nor the discharge of pollutants shall create a nuisance as defined in the California Water Code Section 13050(m).
2. The Discharger shall file with this Board a report of any material change or proposed change in the character, treatment, or volume of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, or ownership of the property.
3. The Discharger shall comply with the Self-Monitoring Program as ordered by the Executive Officer.
4. The Discharger shall comply with the following time schedule to assure compliance with Effluent Limitation A.2.

<u>Task</u>	<u>Completion Date</u>
Investigate and report on the actions to be taken to assure compliance	September 1, 1979

Full Compliance	October 1, 1979
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5. The Discharger shall comply with the following time schedule to assure compliance with Provisions C.2 and C.3.

<u>Task</u>	<u>Completion Date</u>
Develop and install a means for measuring the waste flow	October 1, 1979

6. All equipment including pumps, piping and valves, storage ponds, etc. which may at any time contain wastes shall be adequately and clearly identified with warning signs and Discharger shall make all necessary provisions, in addition, to inform the public that the liquid contained therein is wastewater and is unfit for human consumption.
7. The disposal area which is spray irrigated with treated wastewater shall be clearly identified with posted notices to the public. The method and form of notification shall be subject to the review and approval of the Executive Officer.
8. This Board's Order No. 75-64 is hereby rescinded.
9. The Discharger shall comply with Standard Provision Nos. A-2, A-3, A-4, A-6, A-7, A-8, A-11, A-13, A-15, and A-17 of the attached "Standard Provisions, Reporting Reporting Requirements and Definitions" dated April 1977.
10. Wastewater irrigation ponding which could provide a breeding area for mosquitoes shall be prevented.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 17, 1979.

FRED H. DIERKER
Executive Officer

Attachment:

Standard Provisions, Reporting
Requirements and Definitions dated April 1977

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

THE CHRISTIAN BROTHERS

GREYSTONE WINERY

ST. HELENA, NAPA COUNTY

ORDER NO. 79-88

CONSISTS OF

PART A, dated 1/78

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. EFFLUENT

<u>Station</u>	<u>Description</u>
E-1-W	At any point where all industrial waste is present.
E-1-D	At any point in the disinfection facilities for sanitary sewage, at which point adequate contact with the disinfectant is assured.
E-2 thru E-4	One station in each waste holding pond at the approximate center of the pond and no less than three feet from the bank.
E-5	Somewhere in the pipe between the holding ponds and the spray irrigation lines:

B. LAND OBSERVATIONS

<u>Station</u>	<u>Description</u>
P-1	At downwind boundary of treatment plant.
P-2 thru P-13	At the mid points of the sides of all ponds.
P-14 thru P-n	At points spaced equidistantly around the periphery of the spray irrigation fields. Points shall be separated by less than 200 feet.

II. SCHEDULE OF SAMPLING, ANALYSIS, AND OBSERVATIONS

The schedule of sampling, analysis, and observations shall be that given as Table I.

III. MODIFICATION OF PART "A" DATED 1/78

- A. Exclusions: Paragraphs C.3, C.4, C.5.a, C.5.b, D.1, D.3, E.2, F.1, F.3.e, and F.3.g.

I, Fred H. Diarker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 79-88.

2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachment:
Table I

Effective Date January 9, 1980

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

SAMPLING STATIONS	E-1-W	E-1-D	E-2 thru E-4	E-5	All "p" Sta.				
TYPE OF SAMPLES		G	G	G	O				
Flow Rate (mgd)	D	D							
pH			2W	M					
Sulfides Total & Dissolved (mg/l)			2W	M					
Dissolved Oxygen (mg/l)			2W	M					
Coliform Organisms (MPN/100 ml)		W							
BOD mg/l				M					
All Applicable Standard Observations (1)			2W		2W				

LEGEND FOR TABLE

G = Grab sample
O = Observation

W = Weekly
2W = every two weeks
D = Daily

- (1) The minimum freeboard in the ponds shall be recorded. If waste within the ponds should overtop the pond dikes, it shall be listed as a bypass and a bypass report must be submitted.